ABSTRACT

Methods and systems are disclosed for transferring service application data from a server to a subscriber device via the PSTN without establishing a call between the server and subscriber device and without the PSTN switching components having inherent knowledge as to the data content. The server defines a generic request message, which contains the service application data and data delivery instructions. This generic request message is delivered to the subscriber's terminating switch, which subsequently delivers the service application data to the subsriber based on the data delivery instructions. The terminating switch then defines a generic response message and delivers it to the server, informing the server as to status of the data delivery. Similary, methods and systems are also taught for broadcasting data from a server to a plurality of devices via the PSTN.

APPENDIX

Table of Definitions

- DSL: Digital Subscriber Loop
- ISDN: Integrated Services Digital Network
- GDMF: Generic Data Message Format
- GDMT: Generic Data Message Transport
- GTT: Global Title Translation
- LNP: Local Number Portability
- LRN: Local Routing Number
- MDI: Message Desk Interface
- MDMF: Multiple Data Message Format
- NCAS: Non-Call Associated Signaling
- PSTN: Public Switched Telephone Network
- SCP: Service Control Point
- SDMF: Single Data Message Format
- SMDI: Simplified Message Desk Interface
- SPCS: Stored Program Control System
- SSN: SubSystem Number
- STP: Signaling Transfer Point
- TCAP: Transaction Capabilities Application Part
- UTT: Utility Telemetry Trunk